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## PLAGUE-PREVENTION WORK.

## CALIFORNIA.

The following report of plague-prevention work in California for the week ended July 31, 1915, was received from Senior Surg. Pierce, of the United States Public Health Service, in charge of the work:

SAN FRANCISCO, CAL.		SAN FRANCISCO, CAL.—Continued.	
RAT PROOFING.		RAT PROOFING—continued.	
New buildings:		Old buildings—Continued.	
Inspections of work under construction.	122	Cubic feet new foundation walls installed.....	5,661
Basements concreted (23,750 square feet).....	38	Concrete floors installed (72,706 square feet).....	40
Floors concreted (15,033 square feet)...	9	Basements concreted (55,545 square feet).....	32
Yards, passageways, etc. (11,178 square feet).....	54	Yards and passageways, etc., concreted (53,769 square feet).....	72
Total area of concrete laid (square feet).	49,961	Total area concrete laid (square feet)...	182,020
Classes A, B, and C (fireproof) buildings:		Floors rat proofed with wire cloth (3,100 square feet).....	2
Inspections made.....	202	Buildings razed.....	13
Roof and basement ventilators, etc., screened.....	5,380	New garbage cans stamped approved.....	762
Wire screening used (square feet).....	26,020	Nuisances abated.....	311
Openings around pipes, etc., closed with cement.....	8,811	OPERATIONS ON THE WATER FRONT.	
Sidewalk lens lights replaced.....	720	Vessels inspected for rat guards.....	21
Old buildings:		Reinspections made on vessels.....	23
Inspections made.....	330	New rat guards procured.....	12
Wooden floors removed.....	27	Defective rat guards repaired.....	7
Yards and passageways, planking removed.....	20	Vessels on which cargo was inspected.....	1

  

Amount of cargo inspected and description of same.	Condition.	Rat evidence.
Steamer Congress from Seattle:		
30 bundles rags.....	O. K.....	None.
212 cases salmon, cheese, bacon, milk, and household goods.....	O. K.....	None.
500 sacks flour, wheat, and corn.....	O. K.....	None.

  

Rats trapped on wharves and water front....	38	SQUIRRELS COLLECTED AND EXAMINED FOR PLAGUE.	
Rats trapped on vessels.....	10	Contra Costa County.....	1,075
Traps set on wharves and water front.....	175	Alameda County.....	309
Traps set on vessels.....	44	San Benito County.....	302
Vessels trapped on.....	10	Monterey County.....	92
Poisons placed on water front (pieces).....	3,600	Stanislaus County.....	18
Poisons placed within Panama-Pacific International Exposition grounds (pieces).....	7,200	Total.....	1,796
Bait used on water front and vessels, bacon (pounds).....	6	Found infected.....	6
Amount of bread used in poisoning water front (loaves).....	12	OTHER ANIMALS COLLECTED AND EXAMINED.	
Pounds of poison used on water front.....	6	San Benito County.....	1 rabbit.
RATS COLLECTED AND EXAMINED FOR PLAGUE.		Found infected.....	None.
San Francisco:		RANCHES INSPECTED AND HUNTED OVER.	
Collected.....	403	Contra Costa County.....	86
Examined.....	329	Alameda County.....	47
Found infected.....	0	San Benito County.....	34
Contra Costa County:		Monterey County.....	17
Collected.....	5	Stanislaus County.....	2
Examined.....	5	Total.....	186
Found infected.....	0		

## PLAGUE-INFECTED SQUIRRELS.

## San Benito County:

Found dead July 12, 1915. L. J. Abrams ranch, 8 miles southwest of Llanada. Sec. 31, T. 16 S., R. 11 E.....	2
Found dead July 15, 1915. L. J. Abrams ranch, 9 miles southwest of Llanada. Sec. 5, T. 17 S., R. 11 E.....	2

## PLAGUE-INFECTED SQUIRRELS—Continued.

## Contra Costa County:

Shot July 19, 1915. J. McCusker ranch, 8 miles southwest of Lafayette, P. W. Co. Sec. 16, T. 1 S., R. 3 W.....	1
Alameda County: Shot July 12, 1915. Peoples Water Co., plot O, southwest of Grizzly Peak.....	1

*Record of plague infection.*

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number rodents found infected since May, 1907.
Cities:				
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	(1)	398 rats.
Oakland.....	Aug. 9, 1911	Dec. 1, 1908	(1)	126 rats.
Berkeley.....	Aug. 28, 1907	(1)	(1)	None.
Los Angeles.....	Aug. 11, 1908	(1)	Aug. 21, 1908	1 squirrel.
Counties:				
Alameda (exclusive of Oakland and Berkeley).....	Sept. 24, 1909	Oct. 17, 1909 <sup>2</sup>	July 12, 1915	287 squirrels, 1 wood rat.
Contra Costa.....	July 13, 1915	(1)	July 19, 1915	1,573 squirrels.
Fresno.....	(1)	(1)	Oct. 27, 1911	1 squirrel.
Merced.....	(1)	(1)	July 12, 1911	5 squirrels.
Monterey.....	(1)	(1)	Apr. 10, 1914	6 squirrels.
San Benito.....	June 4, 1913	(1)	July 15, 1915	47 squirrels.
San Joaquin.....	Sept. 18, 1911	(1)	Aug. 26, 1911	18 squirrels.
San Luis Obispo.....	(1)	(1)	Jan. 23, 1910	1 squirrel.
Santa Clara.....	Aug. 31, 1910	(1)	July 23, 1913	25 squirrels.
Santa Cruz.....	(1)	(1)	May 17, 1910	3 squirrels.
Stanislaus.....	(1)	(1)	June 2, 1911	13 squirrels.

<sup>1</sup> None.<sup>2</sup> Wood rat.

The work is being carried on in the following-named counties: Alameda, Contra Costa, San Francisco, Stanislaus, San Benito, and Monterey.

## LOUISIANA—NEW ORLEANS—PLAGUE ERADICATION.

The following report of plague-eradication work at New Orleans for the week ended August 7, 1915, was received from Passed Asst. Surg. Simpson, of the United States Public Health Service, in temporary charge of the work:

OUTGOING QUARANTINE.		BUILDINGS RAT PROOFED.	
Vessels fumigated with sulphur.....	13	By elevation.....	174
Vessels fumigated with carbon monoxide..	11	By marginal concrete wall.....	276
Vessels fumigated with hydrocyanic gas...	1	By concrete floor and wall.....	175
Pounds of sulphur used.....	3,087	By minor repairs.....	247
Coke consumed in carbon monoxide fumigation (pounds).....	17,200	Total buildings rat proofed.....	872
Pounds of potassium cyanide used in hydrocyanic-gas fumigation.....	102	Square yards of concrete laid.....	10,877
Pounds of sodium carbonate used in hydrocyanic-gas fumigation.....	120	Number lots and sheds, planking removed.	126
Pounds of sulphuric acid used in hydrocyanic-gas fumigation.....	104	Number of buildings demolished.....	161
Clean bills of health issued.....	35	Total buildings rat proofed to date (abated)	93,220
Foul bills of health issued.....	4	LABORATORY OPERATIONS.	
FIELD OPERATIONS.		Rodents received by species:	
Rats trapped.....	5,465	Mus rattus.....	240
Premises inspected.....	11,534	Mus norvegicus.....	1,369
Notices served.....	3,591	Mus alexandrinus.....	140
Garbage cans installed.....	230	Mus musculus.....	3,657
		Wood rats.....	44
		Muskrats.....	43
		Putrid (included in enumeration of species).....	65

## LABORATORY OPERATIONS—continued.

Total rodents received at laboratory.....	5,493
Rodents examined.....	1,980
Number of suspicious rats.....	3
Plague rats confirmed.....	None.
Number of human plague cases.....	None.
Last case of human plague, Oct. 4, 1914.	
Last case of rodent plague, July 20, 1915.	
Total number of rodents captured to	
Aug. 7.....	407,885
Total number of rodents examined to	
Aug. 7.....	275,151

## LABORATORY OPERATIONS—continued.

Total cases of rodent plague to Aug. 7, by	
specie:	
Mus musculus.....	4
Mus alexandrinus.....	8
Mus rattus.....	16
Mus norvegicus.....	218
Total rodent cases to Aug. 7, 1915.....	246

## WASHINGTON—SEATTLE—PLAGUE ERADICATION.

The following reports of plague-eradication work at Seattle were received from Surg. Lloyd, of the United States Public Health Service, in charge of the work:

WEEK ENDED JULY 24, 1915.

## RAT PROOFING.

New buildings inspected.....	22
New buildings reinspected.....	5
Basements concreted, new buildings (16,329 square feet).....	11
Floors concreted, new buildings (37,750 square feet).....	8
Yards, etc., concreted, new structures (1,326 square feet).....	6
Sidewalks concreted (square feet).....	9,675
Total concrete laid, new structures (square feet).....	65,080
New buildings elevated.....	2
New premises rat proofed, concrete.....	19
Old buildings inspected.....	3
Premises rat proofed, concrete, old building.....	1
Floors concreted, old buildings (2,760 square feet).....	1
Premises otherwise rat proofed, old buildings.....	2
Openings screened, old buildings.....	24
Rat holes cemented, old buildings.....	19
Wooden floors removed, old buildings.....	1
Wire screening used.....	750

## LABORATORY AND RODENT OPERATIONS.

Dead rodents received.....	7
Rodents trapped and killed.....	295
Rodents recovered after fumigation.....	67
Total.....	369
Rodents examined for plague infection.....	239
Rodents proven plague infected.....	0
Poison distributed, pounds.....	18
Bodies examined for plague infection.....	2
Bodies found plague infected.....	0

## CLASSIFICATION OF RODENTS.

Mus rattus.....	32
Mus alexandrinus.....	45
Mus norvegicus.....	212
Mus musculus.....	58
Unclassified.....	22

## WATER FRONT.

Vessels inspected and histories recorded.....	8
Vessels fumigated.....	3
Sulphur used, pounds.....	5,480
New rat guards installed.....	11
Defective rat guards repaired.....	7
Fumigation certificates issued.....	3
Port sanitary statements issued.....	68
The usual day and night patrol was maintained to enforce rat guarding and fending.	

## MISCELLANEOUS WORK.

Rat-proofing notices sent to contractors, new buildings.....	16
Letters sent in re rat complaints.....	9
Lectures delivered on sanitary subjects.....	1

## RODENTS EXAMINED IN EVERETT.

Mus norvegicus trapped.....	36
Mus norvegicus found dead.....	0
Mus rattus trapped.....	1
Mus musculus trapped.....	12
Total.....	49
Rodents examined for plague infection.....	43
Rodents proven plague infected.....	0

## RAT-PROOFING OPERATIONS IN EVERETT.

New buildings inspected.....	4
New buildings, concrete foundations.....	4

WEEK ENDED JULY 31, 1915.

## RAT PROOFING.

New buildings inspected.....	18
New buildings reinspected.....	9
Basements concreted, new buildings, 17,550 square feet.....	14

## RAT PROOFING—Continued.

Floors concreted, new buildings, 38,750 square feet.....	10
Yards, etc., concreted, new structures, 2,175 square feet.....	4

## RAT PROOFING—continued.

Sidewalks concreted, 26,475 square feet.	
Total concrete laid, new structures, 84,950 square feet.	
New buildings elevated.....	3
New premises rat proofed, concrete.....	24
Old buildings inspected.....	3
Premises otherwise rat proofed, old buildings.....	3
Openings screened, old buildings.....	17
Rat holes cemented, old buildings.....	34
Doors rat proofed, old buildings.....	2
Wire screening used.....	650

## LABORATORY AND RODENT OPERATIONS.

Dead rodents received.....	6
Rodents trapped and killed.....	366
Rodents recovered after fumigation.....	45
Total.....	417
Rodents examined for plague infection.....	288
Rodents proven plague infected.....	1
Poison distributed, pounds.....	13

## CLASSIFICATION OF RODENTS.

Mus rattus.....	53
Mus alexandrinus.....	75
Mus musculus.....	86
Mus norvegicus.....	203

## WATER FRONT.

Vessels inspected and histories recorded.....	9
Vessels fumigated.....	2
Sulphur used, pounds.....	3,100

## WATER FRONT—continued.

New rat guards installed.....	16
Defective rat guards repaired.....	9
Fumigation certificates issued.....	2
Port sanitary statements issued.....	49

The usual day and night patrol was maintained to enforce rat guarding and fending.

## MISCELLANEOUS WORK.

Rat proofing notices sent to contractors, new buildings.....	16
Letters sent in re rat complaints.....	4

## RODENTS EXAMINED IN EVERETT.

Mus norvegicus trapped.....	33
Mus norvegicus found dead.....	3
Mus musculus trapped.....	3
Mus alexandrinus trapped.....	3
Total.....	42
Rodents examined for plague infection.....	39
Rodents proven plague infected.....	0

## RAT PROOFING OPERATIONS IN EVERETT.

New buildings inspected.....	5
New buildings, concrete foundations.....	4
New buildings elevated 18 inches.....	1
New buildings, basements concreted, 2,368 square feet.....	4
New buildings, yards concreted, 932 square feet.....	4
Total concrete laid, new buildings, 3,300 square feet.	

## HAWAII—PLAGUE PREVENTION.

The following reports of plague-prevention work in Hawaii were received from Surg. Trotter, of the United States Public Health Service:

## Honolulu.

## WEEK ENDED JULY 24, 1915.

Total rats and mongoose taken.....	342	Classification of rats killed by sulphur dioxide—Continued.	
Rats trapped.....	306	Mus rattus.....	13
Mongoose trapped.....	15	Mus alexandrinus.....	1
Rats found dead (mus alexandrinus).....	1	Average number of traps set daily.....	984
Examined microscopically.....	283	Cost per rat destroyed.....cents..	22½
Showing plague infection.....	0	Last case rat plague, Aiea, 9 miles from Honolulu, April 12, 1910.	
Classification of rats trapped:		Last case human plague, Honolulu, July 12, 1910.	
Mus alexandrinus.....	167	Last case rat plague, Kalopa stable, Paauhau, Hawaii, August 29, 1914.	
Mus musculus.....	52	Last case human plague, Paauhau landing, Hawaii, June 23, 1915.	
Mus norvegicus.....	77		
Mus rattus.....	10		
Classification of rats killed by sulphur dioxide:			
Mus norvegicus.....	6		

## Hilo.

## WEEK ENDED JULY 17, 1915.

Rats and mongoose taken.....	2,463	Mongoose taken.....	37
Rats trapped.....	2,421	Rats and mongoose examined macroscopically.....	2,463
Rats found dead.....	5		

Rats and mongocse plague infected.....	0	Last case of rat plague, Paauhau Sugar Co. Aug.
Classification of rats trapped and found dead:		29, 1914.
Mus norvegicus.....	620	Last case of human plague, Paauhau Sugar Co.,
Mus alexandrinus.....	294	Aug. 16, 1914.
Mus rattus.....	713	
Mus musculus.....	799	